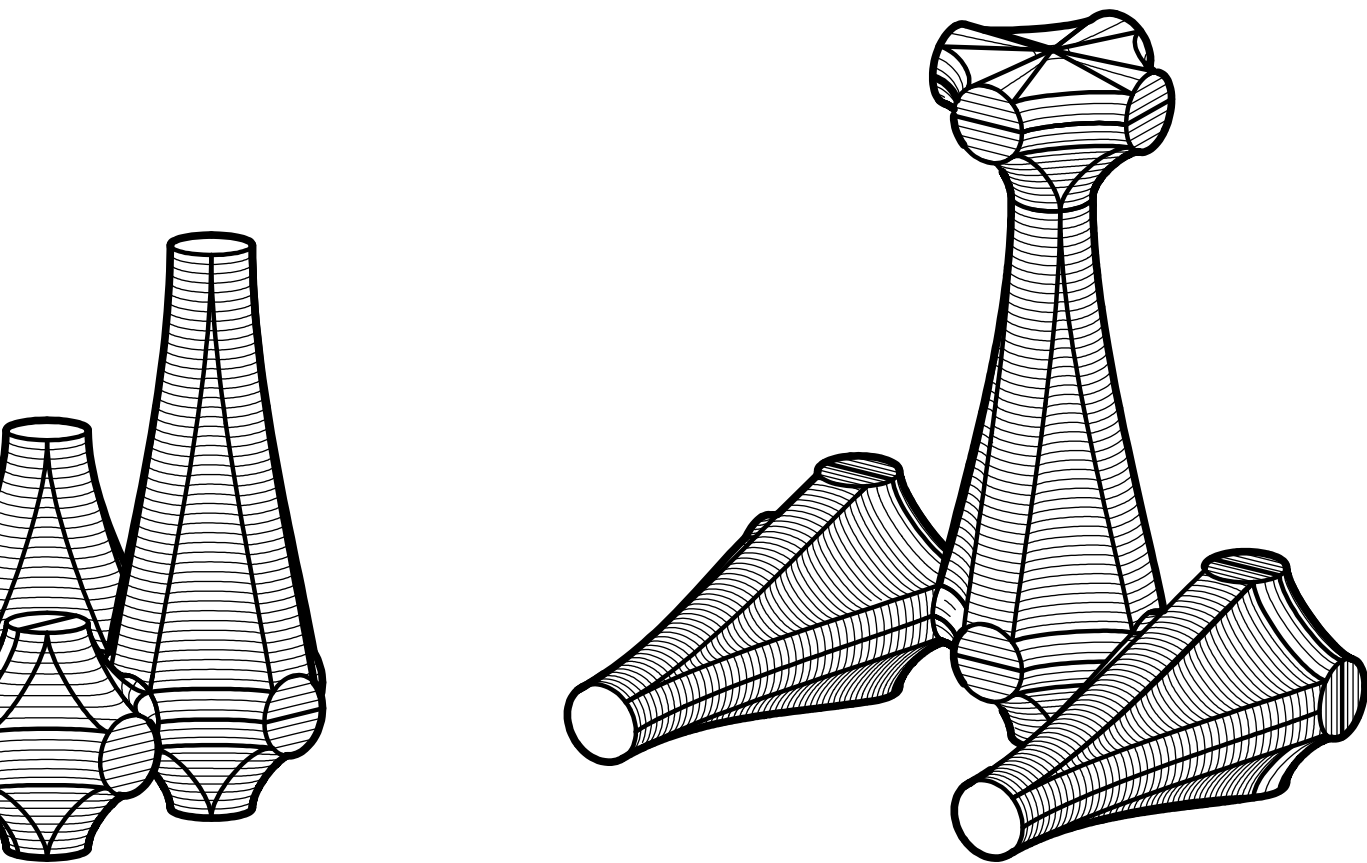


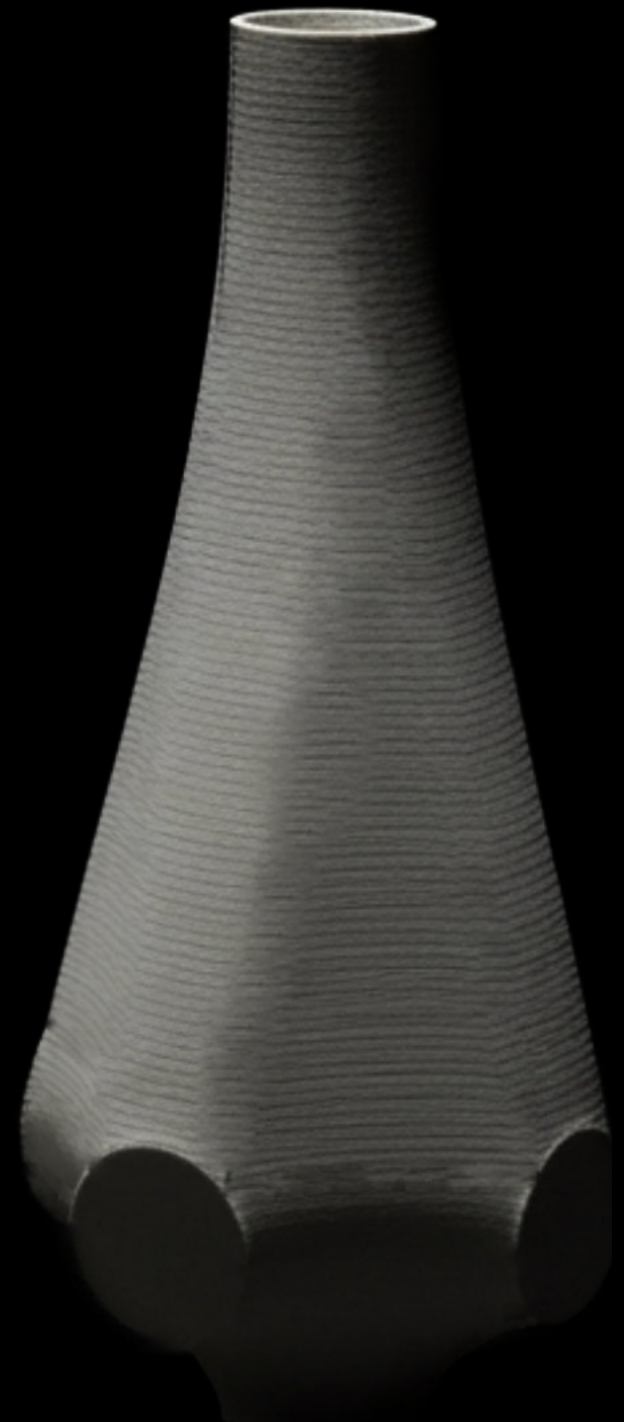
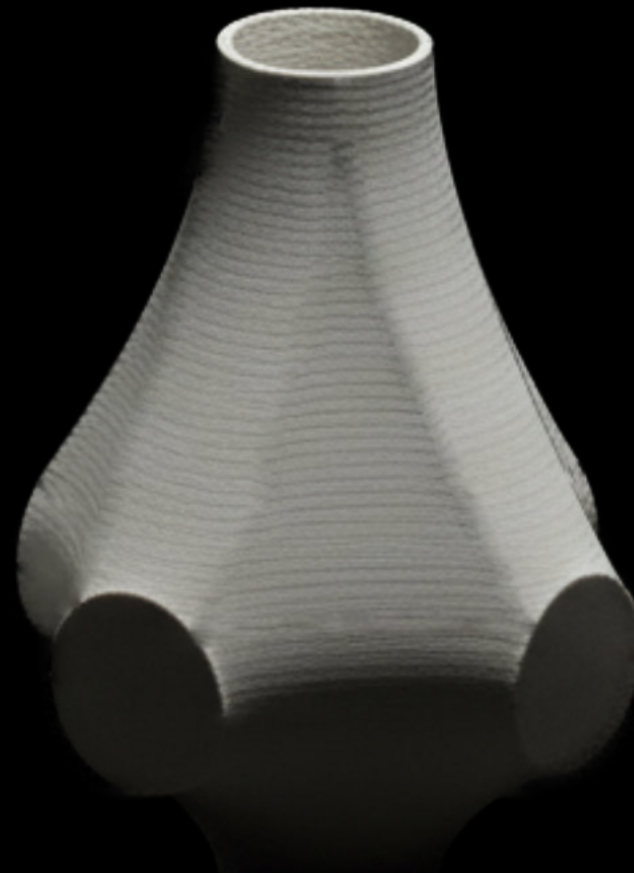
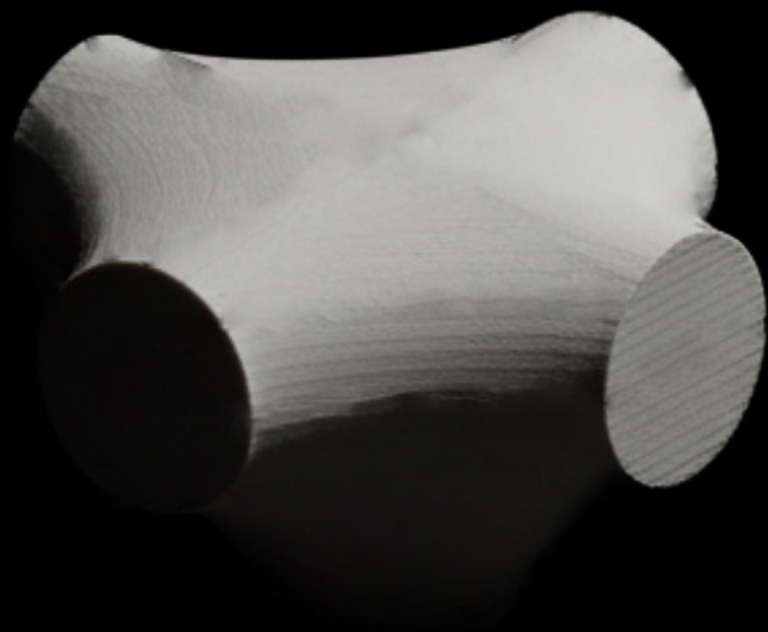
PORTFOLIO

OF BOOK 4



A COLLECTION OF UNDERGRADUATE WORK

INTER
LOCK
ING
SPRING 2024

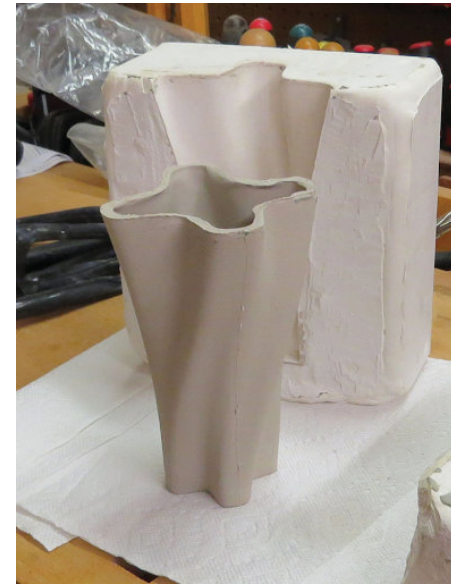


CLAY SLIP

+ PLASTER

MOLDING

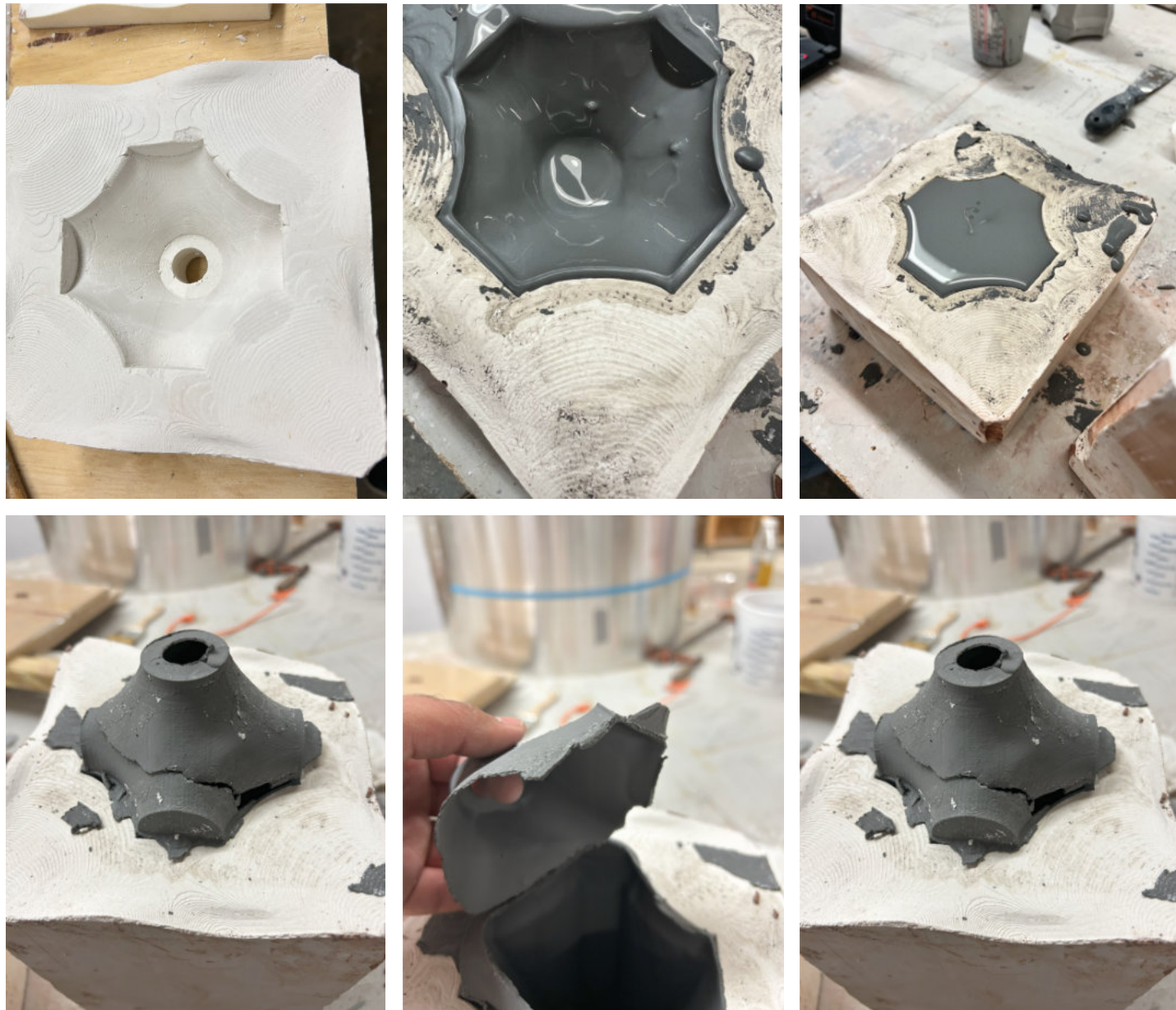
Forming ceramics from plaster molds is a lengthy process with many steps. Our goal throughout this project is to create an object through the combination of ceramic pieces joined to one another.



Ceramico Cumella
2013
Joseph Regas

SLIP THICKNESS

We conducted multiple material tests. The main test of our process was the amount of time the clay slip needed in the plaster mold. In the end, the sweet spot was between 20-25 minutes. This allowed the plaster enough time to absorb enough water so that the clay slip that was left had the right thickness to be strong.



INTER_LOCKING

BONDING METHODS

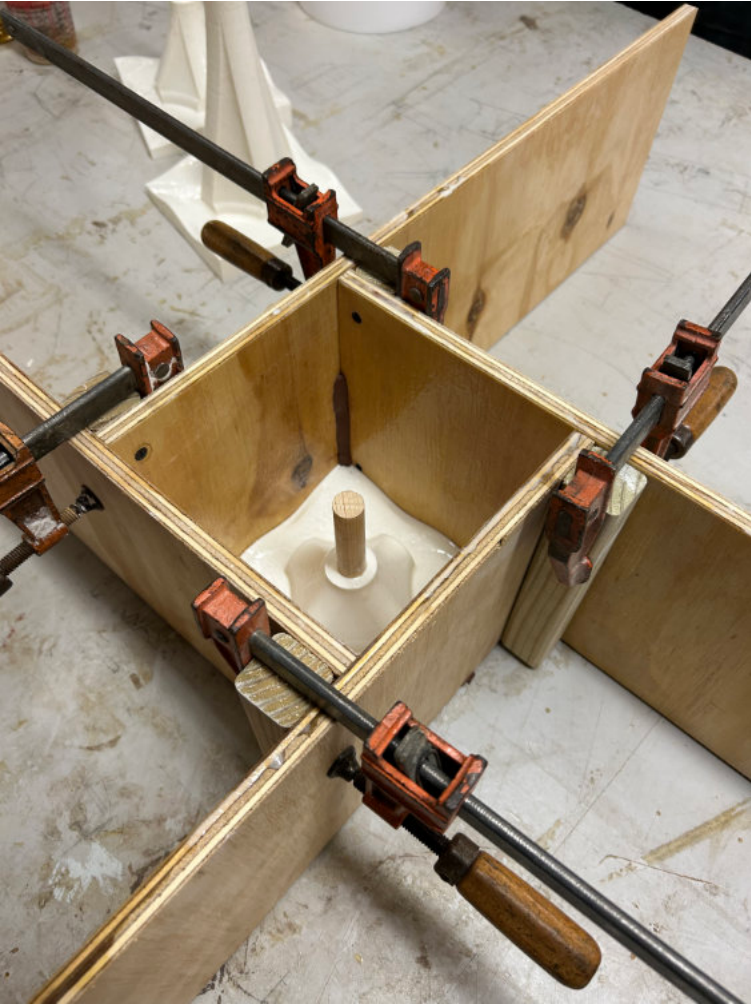
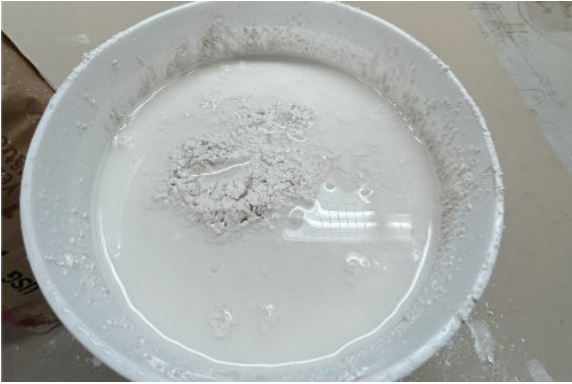
One Method that was particularly effective in bonding clay, was using vinegar. It could dissolve clay when it was dry and allowed it to be joined to other pieces or more slip.



INTER_LOCKING

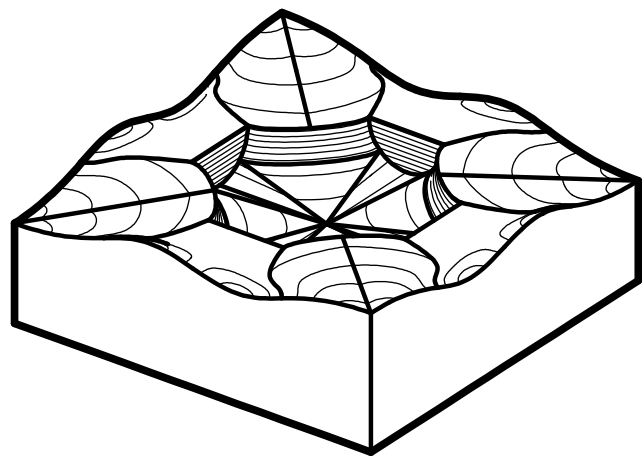
M O L D S

Starting out with a 3D Printed Model, coat in Murphy soap, set in wood support, mix and pour plaster, connect the top, and pour the slip.

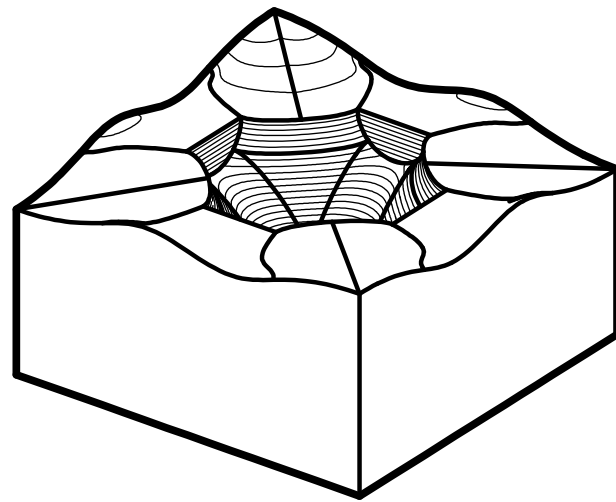


COMPONENT CATALOG

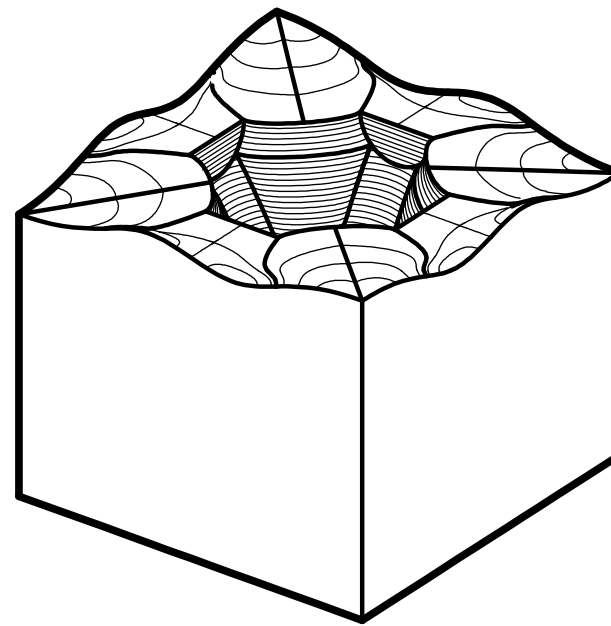
These drawings are a catalog of the components that were made for the project. It consists of plaster molds ranging from the decorative capstone piece call "cap," to a small, medium, or large size mold. Due to the nature of the project, it was imperative to have these plaster molds perfect so that everything would just fall into place.



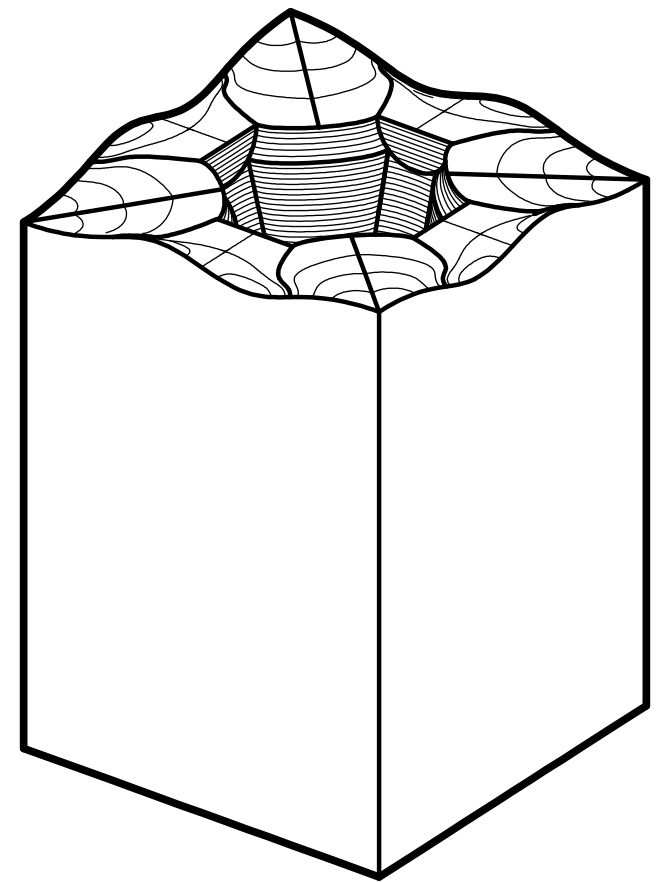
Component 1: Cap



Component 2: Small



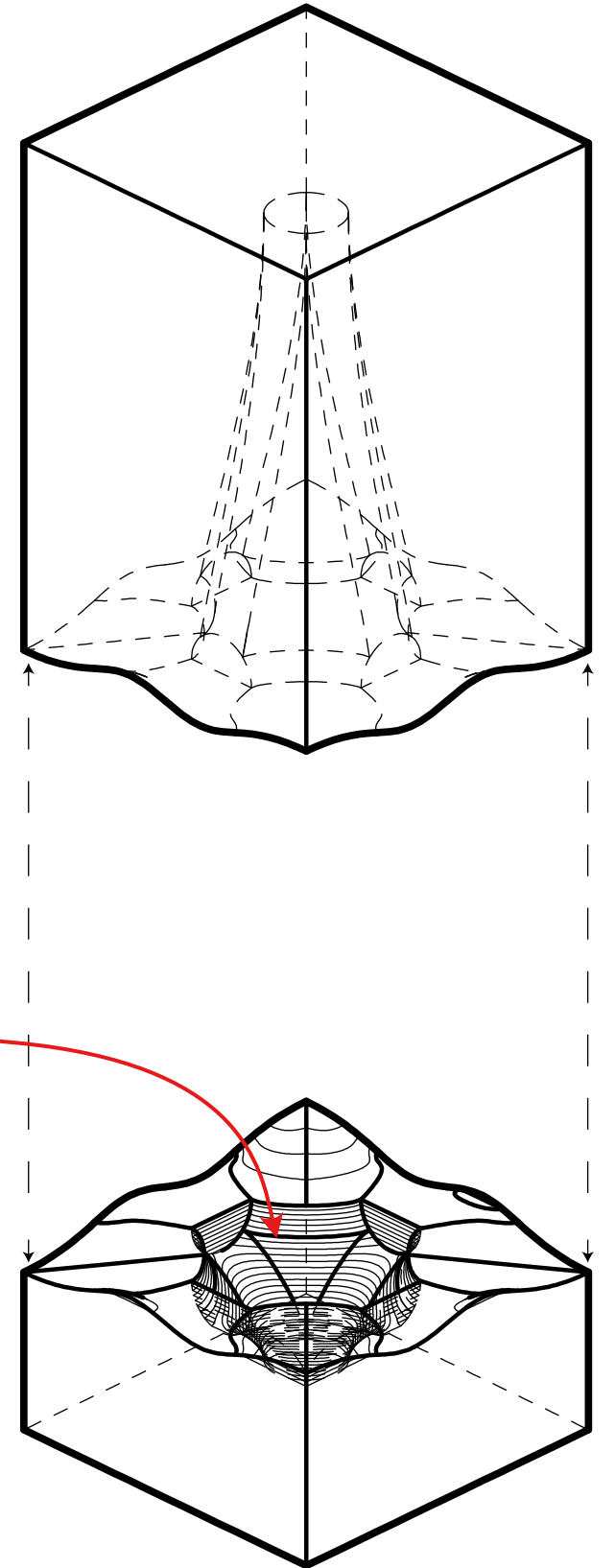
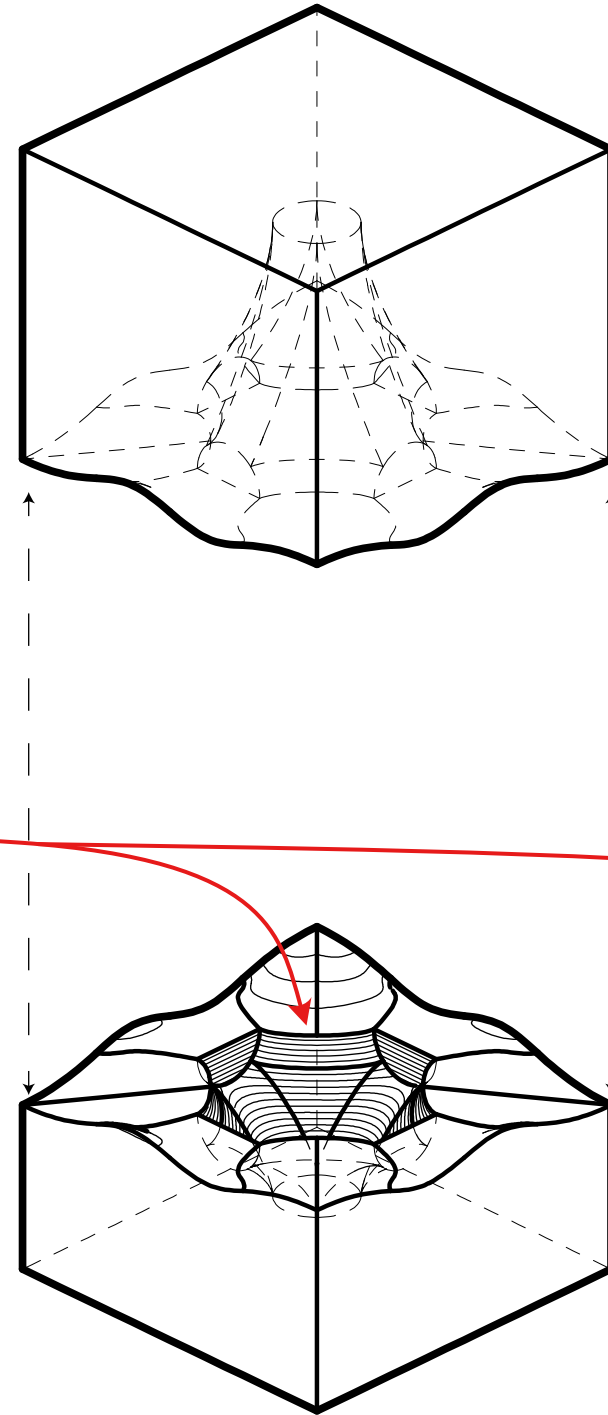
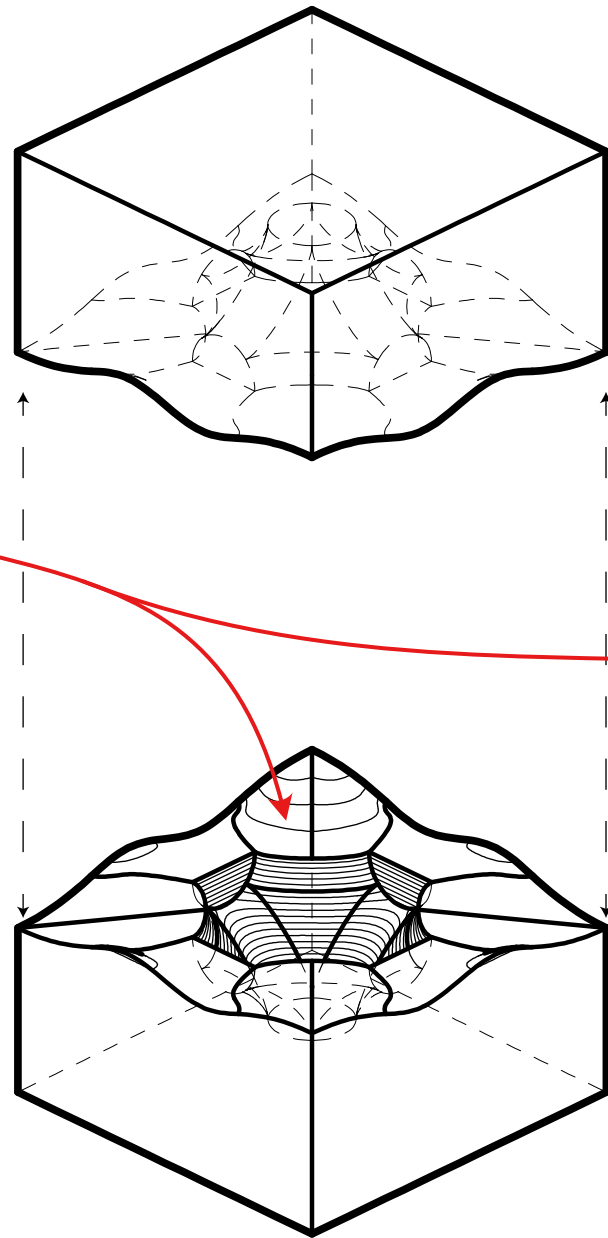
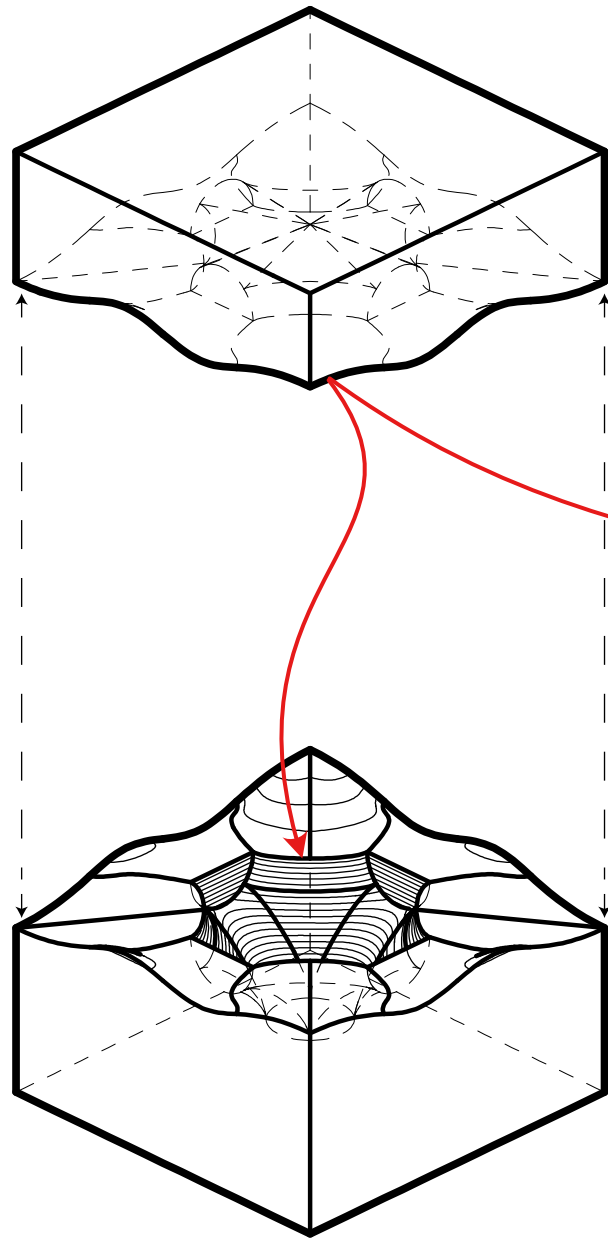
Component 3: Medium



Component 4: Large

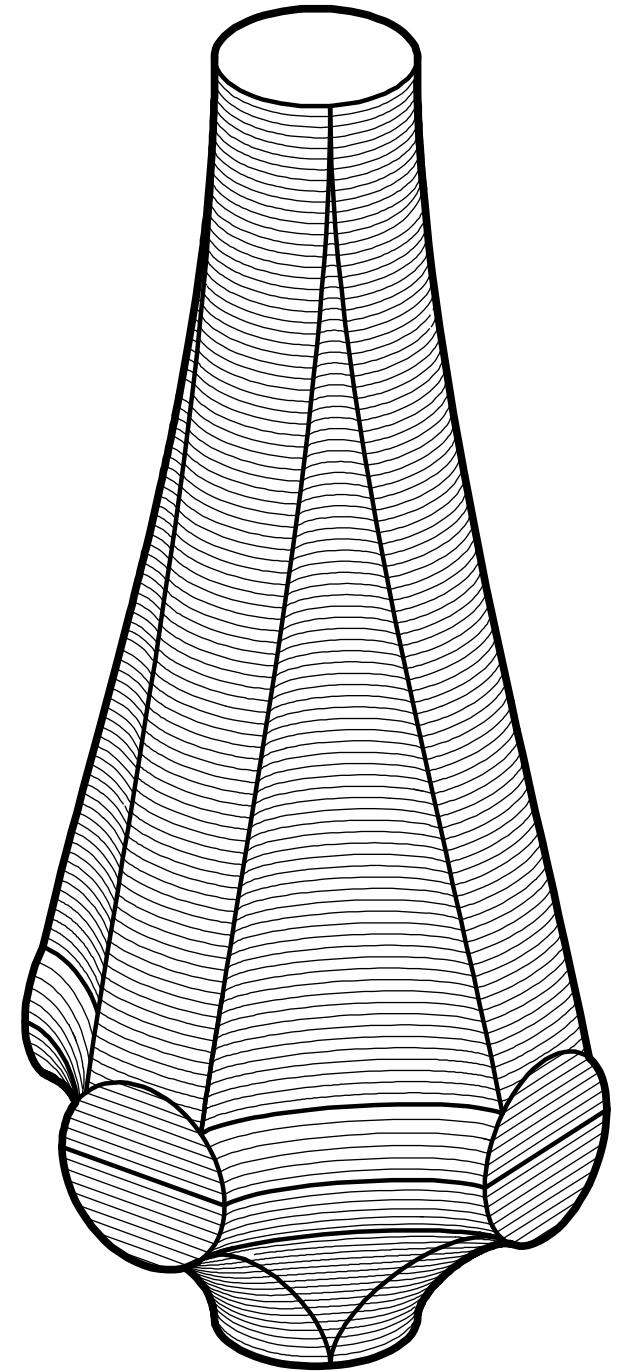
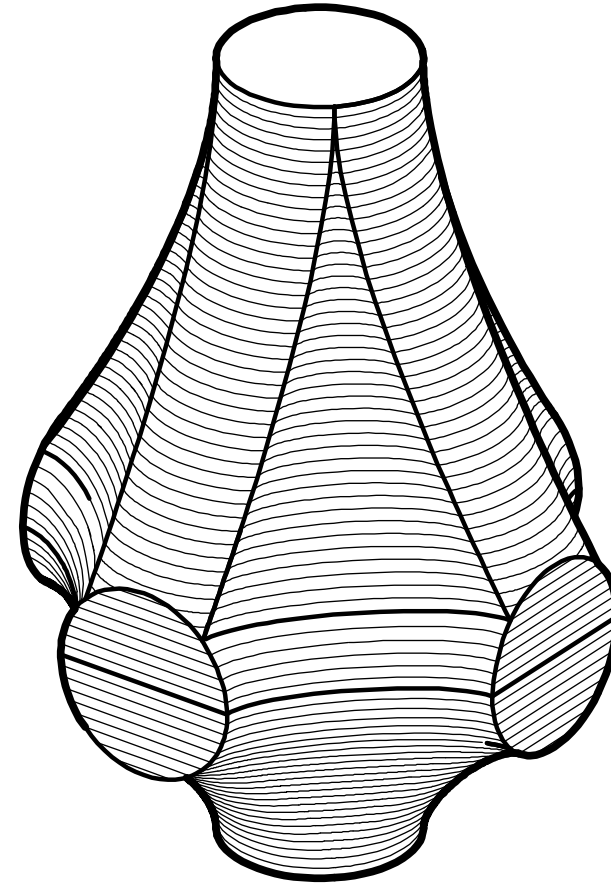
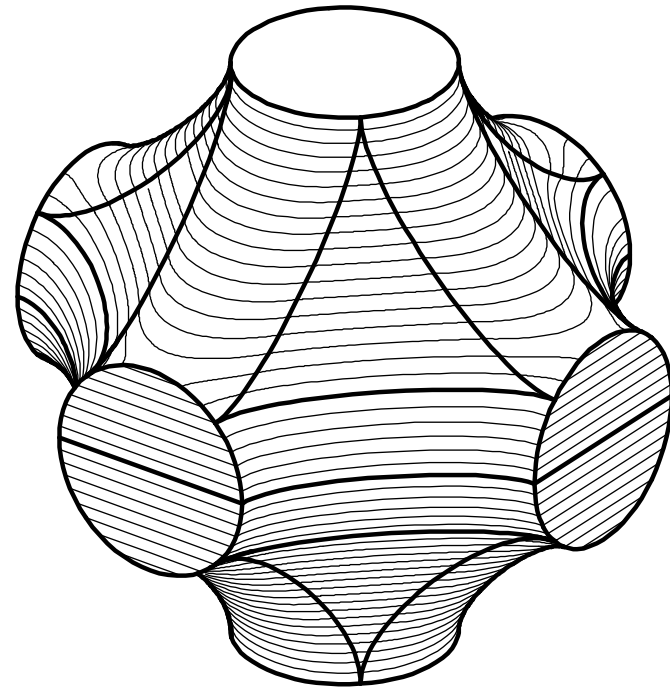
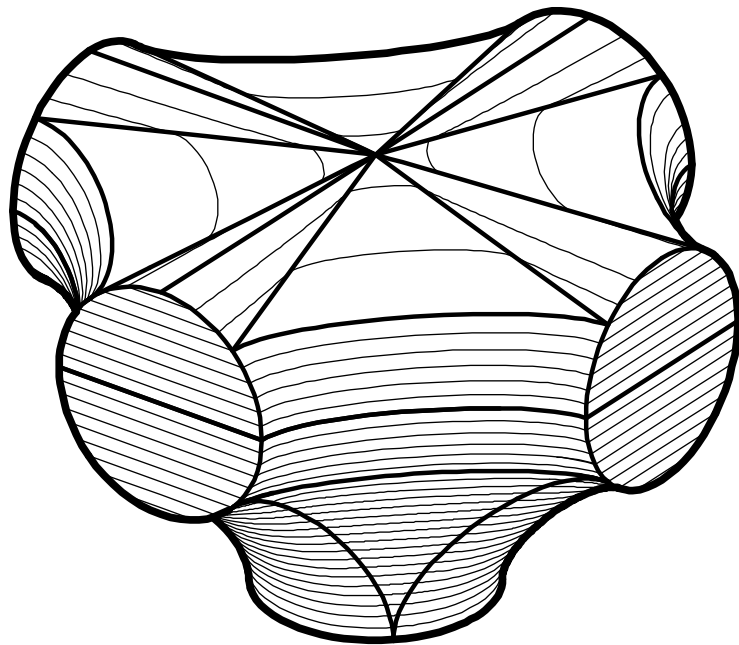
INTER-LOCKING METHODS

In order to ensure that the plaster molds connected together perfectly, a wavy seam was added to the molds. With this, the plaster molds would connect with each other no matter the rotation of the mold



RULES OF COMBINATION

There are a total of 4 ways to make a combination.
Every combo has to have a small piece by default.
Then there is the small, medium, tall or a cap.



APPLICATIONS

The end product allowed complete freedom when assembling the final results. In the end its really up to the user's imagination as to what can be made out of the pieces. Here are a few.



END OF BOOK 4

